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Did you mean: +("training" OR train OR learn) +(sniff or smell OR scent) +(locally OR localized)

Non-detonable and non-explosive explosive simulators
US Pat. 5648636 - Filed May 9, 1995 - Regents of the University of California

In the past, this dog training has been such as the olfactory sense of dogs or ... phase which is rich in the dog to learn to sniff-out certain explosives. ...

Method and apparatus for detecting target objects

US Pat. 6843158 - Filed May 2, 2002

Such materials may also possess a novel **scent** which the animal can be ... of the trained animal to recognize and **sniff** out this particular **scent** would lead ...

Method for fabricating non-detonable explosive simulants

US Pat. 5413812 - Filed Apr 1, 1994 - The Regents of the University of California ... same **smell** or **scent** as the actual explosive and RS-01-AB, are set forth hereinafter in Table I: and thus enable the dog to **learn** to **sniff**-out certain ...

Non-detonable explosive simulators

US Pat. 5359936 - Filed Mar 8, 1993 - Regents of the University of California The simulators would produce the same **smell** or **scent** as the actual explosive and thus enable the dog to **learn** to **sniff**-out certain explosives....

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1. Could olfactory displays improve data visualization?

Washburn, D.A.; Jones, L.M.;

Computing in Science & Engineering [see also IEEE Computational Science and Engineering]

Volume 6, Issue 6, Nov.-Dec. 2004 Page(s):80 - 83 Digital Object Identifier 10.1109/MCSE.2004.66

AbstractPlus | References | Full Text: PDF(616 KB) | IEEE JNL

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Results (page 1): ("training" OR train OR learn) AND (sniff or smell OR scent) AND (loc... Page 1 of 6



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1 Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments

Additional presentations from the 24th course are available on the citation page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez July 2006 ACM SIGGRAPH 2006 Courses SIGGRAPH '06

Publisher: ACM Press

Full text available: pdf(5.07 MB) Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms mov(68:6 MIN)

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources. In this course w ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

2 Making things public: democracy and government-funded videogames and virtual



reality simulations

Elizabeth Losh

July 2006 Proceedings of the 2006 ACM SIGGRAPH symposium on Videogames sandbox '06

Publisher: ACM Press

Full text available: Topological pdf(326.48 KB) Additional Information: full citation, abstract, references; index terms

This paper discusses two computer graphics-intensive projects at the University of Southern California that are being developed with funding from the U.S. military: Tactical Iraqi, a computer game designed to accelerate a soldier's acquisition of spoken Arabic to assist in volatile tactical situations, and Virtual Iraq, a virtual reality simulation intended to lessen the effects of Post-Traumatic Stress Disorder among combat veterans. Both initiatives have received extensive nation ...

Keywords: computer game, digital experience, exposure therapy, foreign language learning, public rhetoric, virtual reality

The palace of memory: virtual tourism and tours of duty in Tactical Iraqi and Virtual http://portal.acm.org/results.cfm?coll=portal&dl=ACM&CFID=11780750&CFTOKEN=95... 1/7/2008 Iraq

Elizabeth Losh

December 2006 Proceedings of the 2006 international conference on Game research and development CyberGames '06

Publisher: Murdoch University

Full text available: pdf(595.15 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses two projects developed at the University of Southern California with funding from the U.S. military: Tactical Iraqi, a videogame that is designed to accelerate a learner's acquisition of spoken Arabic to assist in the rapid deployment of soldiers into volatile tactical situations, and Virtual Iraq, a virtual reality simulation intended to lessen the effects of Post-Traumatic Stress Disorder among combat veterans. Both programs specifically address issues of ...

Keywords: computer game, digital experience, exposure therapy, foreign language learning, method of loci, virtual reality

Mobility and sociability: Nokia sensor: from research to product

Per Persson, Younghee Jung

November 2005 Proceedings of the 2005 conference on Designing for User experience **DUX '05**

Publisher: AIGA: American Institute of Graphic Arts

Additional Information: full citation, abstract, references Full text available: pdf(7.60 MB)

In May 2005, Nokia Sensor application became available to the public (www.nokia.com/sensor). This new mobile software allows mobile phone users to communicate within short-range distance via Bluetooth wireless technology without going through network operator. Creating the personal identity expression is at the core of Sensor. From there, Sensor users can discover each other's identity expressions and utilize a number of communication features as long as they are within the range of Bluetooth. T ...

Keywords: concept design, handheld devices and mobile computing, interaction design, product design, product management, prototyping, ubiquitous computing / smart environments, user studies, user-centered design / human-centered design

Analysis of navigability of Web applications for improving blind usability

Hironobu Takagi, Shin Saito, Kentarou Fukuda, Chieko Asakawa

September 2007 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, index terms

Various accessibility activities are improving blind access to the increasingly indispensable WWW. These approaches use various metrics to measure the Web's accessibility. "Ease of navigation" (navigability) is one of the crucial factors for blind usability, especially for complicated webpages used in portals and online shopping sites. However, it is difficult for automatic checking tools to evaluate the navigation capabilities even for a single webpage. Navigability issues for co ...

Keywords: Accessibility, Web accessibility, online shopping, usability testing, voice browsers

6 Physical interfaces: Supporting interspecies social awareness: using peripheral

displays for distributed pack awareness

Demi Mankoff, Anind Dey, Jennifer Mankoff, Ken Mankoff

October 2005 Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05

Results (page 1): ("training" OR train OR learn) AND (sniff or smell OR scent) AND (loc... Page 3 of 6

Publisher: ACM Press

Full text available: pdf(4.08 MB)

Additional Information: full citation, abstract, references, index terms

In interspecies households, it is common for the non *homo sapien* members to be isolated and ignored for many hours each day when humans are out of the house or working. For pack animals, such as canines, information about a pack member's extended pack interactions (outside of the nuclear household) could help to mitigate this social isolation. We have developed a Pack Activity Watch System: Allowing Broad Interspecies Love In Telecommunication with Internet-Enabled Sociability (PAWSABILIT ...

Keywords: awareness, dogs, interspecies interaction, peripheral displays

7 Technique for automatically correcting words in text

Karen Kukich

December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(6.23 MB)

Additional Information: <u>full citation, abstract, references, citings, index</u> terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

8 The relational model for database management: version 2

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(28.61 MB)

Additional Information: full citation, abstract, references, cited by, index

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

9 Making Scents: aromatic output for HCI

Joseph Jofish Kaye
January 2004 interactions, Volume 11 Issue 1

Publisher: ACM Press

Fublisher. Acid Fless

Full text available: pdf(726.75 KB)

Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

10 The effects of information scent on visual search in the hyperbolic tree browser

Peter Pirolli, Stuart K. Card, Mija M. Van Der Wege

March 2003 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 10 Issue

Results (page 1): ("training" OR train OR learn) AND (sniff or smell OR scent) AND (loc... Page 4 of 6

Publisher: ACM Press

Full text available: pdf(2.37 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

terms.

The Hyperbolic Tree is a focus + context information visualization that has been developed to amplify users' ability to navigate large tree-structured information systems. Information scent is a theoretical construct that captures one kind of interaction between task and display. Information scent is provided by task-relevant display cues, such as node labels on a tree that influence a user's visual search behavior and navigation decisions. An empirical Accuracy of Scent (AOS) score was develope ...

Keywords: Hyperbolic Tree, Information visualization, fisheye-lens visual search, focus+context, information foraging, information scent, interactive computer graphics

11 <u>Data mining of multidimensional remotely sensed images</u>

Robert F. Cromp, William J. Campbell

December 1993 Proceedings of the second international conference on Information and knowledge management CIKM '93

Publisher: ACM Press

Full text available: pdf(1.39 MB)

Additional Information: full citation, references, citings, index terms

12 Unconventional human computer interfaces

Steffi Beckhaus, Ernst Kruijff

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(2.89 MB) Additional Information: full citation, abstract

This course focuses on how we can use the potential of the human body in experimental or unconventional interface techniques. It explores the biological or physiological characteristics of the separate parts of the body, from head to toe, and from skin to heart, showing how their sensor (input) and control (output) capabilities can be applied to human computer interfaces. We demonstrate a wide variety of applications that make use proven interfaces as well as extremely experimental systems. Exam ...

13 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 ACM SIGART Bulletin, Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract, citings

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

14 Content session 2: machine learning in multimedia: Local image representations

using pruned salient points with applications to CBIR

Hui Zhang, Rouhollah Rahmani, Sharath R. Cholleti, Sally A. Goldman

October 2006 Proceedings of the 14th annual ACM international conference on Multimedia MULTIMEDIA '06

Publisher: ACM Press

Full text available: pdf(405.51 KB) Additional Information: full citation, abstract, references, index terms

Salient points are locations in an image where there is a significant variation with respect to a chosen image feature. Since the set of salient points in an image capture important local characteristics of that image, they can form the basis of a good image representation

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for content-based image retrieval (CBIR). The features for a salient point should represent the local characteristic of that point so that the similarity between features indicates the similarity between the salient points. Tr ...

Keywords: content-based, feature representation, image retrieval, interest points, multiple instance learning, salient points

15 Coherent global motion percepts from stochastic local motions (abstract only)



D. W. Williams, R. Sekuler

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract Full text available: pdf(3.92 MB)

A percept of global, coherent motion results when many different localized motion vectors are combined. We studied the percept with dynamic random dot kinematograms in which each element took an independent, random walk of constant step size. Directions of displacement from frame to frame were chosen from a uniform distribution. The tendency to see coherent, global flow along the mean of the uniform distribution varied with the range of the distribution. Psychometric functions were obtained with ...

16 Course 17: Spatial augmented reality: merging real and virtual worlds: Modern approaches to augmented reality



Video files associated with this course are available from the citation page

Oliver Bimber, Ramesh Raskar

August 2007 ACM SIGGRAPH 2007 courses SIGGRAPH '07

Publisher: ACM Press

Full text available: pdf(46.17 MB)

Additional Information: full citation, appendices and supplements, abstract, references, index terms

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software implementations, and current areas of application. Specifically, it will describe techniques for optical combination using single/multiple spatially aligned mirror-beam splitters, image sources, transparent screens and optical holograms. Furthermo ...

17 Industry/government track papers: Effective localized regression for damage



detection in large complex mechanical structures

Aleksandar Lazarevic, Ramdev Kanapady, Chandrika Kamath

August 2004 Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04

Publisher: ACM Press

Full text available: Topdf(597.35 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a novel data mining technique for the efficient damage detection within the large-scale complex mechanical structures. Every mechanical structure is defined by the set of finite elements that are called structure elements. Large-scale complex structures may have extremely large number of structure elements, and predicting the failure in every single element using the original set of natural frequencies as features is exceptionally time-consuming task. Traditional data m ...

Keywords: clustering, damage detection, localized regression, mechanical structures, structure elements

18 Training hard to learn networks using advanced simulated annealing methods Bruce E. Rosen, James M. Goodwin



April 1994 Proceedings of the 1994 ACM symposium on Applied computing SAC '94

Publisher: ACM Press

Results (page 1): ("training" OR train OR learn) AND (sniff or smell OR scent) AND (loc... Page 6 of 6

Full text available: pdf(501.81 KB) Additional Information: full citation, references, index terms

Keywords: backpropagation, neural networks, optimization, simulated annealing

19 Research directions in virtual environments: report of an NSF Invitational Workshop,



March 23-24, 1992, University of North Carolina at Chapel Hill Gary Bishop, Henry Fuchs

Gary Bishop, Henry Fuchs
August 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(2.33 MB)

Additional Information: full citation, citings, index terms

20 Technical poster session 1: multimedia analysis, processing, and retrieval: An online-



optimized incremental learning framework for video semantic classification
Jun Wu, Xian-Sheng Hua, Hong-Jiang Zhang, Bo Zhang

October 2004 Proceedings of the 12th annual ACM international conference on Multimedia MULTIMEDIA '04

Publisher: ACM Press

Full text available: pdf(156.75 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

This paper considers the problems of feature variation and concept uncertainty in typical learning-based video semantic classification schemes. We proposed a new online semantic classification framework, termed OOIL (for Online-Optimized Incremental Learning), in which two sets of optimized classification models, local and global, are online trained by sufficiently exploiting both local and global statistic characteristics of videos. The global models are pre-trained on a relatively small set ...

Keywords: concept drifting, incremental learning, video analysis, video semantic classification

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21 Short papers: A software engineering framework for biomedical diagnostic systems Ilias Petrounias, Vassilis S. Kodogiannis

May 2006 Proceedings of the 2006 international workshop on Workshop on interdisciplinary software engineering research WISER '06

Publisher: ACM Press

Full text available: 📆 pdf(141.81 KB) Additional Information: full citation, abstract, references, index terms

Development of intelligent systems to support biomedical applications differs for traditional approaches to systems development. A large number of features needs to be extracted from data and processing of these is not satisfactory by conventional approaches and individuals. Development of such systems greatly changes the amount and nature of information available to physicians, and also the work involved in treating patients. Intelligent systems are learning-based and that makes them easier to ...

Keywords: biomedical diagnostic systems, neural networks

22 Discriminative learning for differing training and test distributions

Steffen Bickel, Michael Brückner, Tobias Scheffer

June 2007 Proceedings of the 24th international conference on Machine learning ICML '07

Publisher: ACM Press

Full text available: pdf(284.64 KB) Additional Information: full citation, abstract, references

We address classification problems for which the training instances are governed by a distribution that is allowed to differ arbitrarily from the test distribution---problems also referred to as classification under covariate shift. We derive a solution that is purely discriminative: neither training nor test distribution are modeled explicitly. We formulate the general problem of learning under covariate shift as an integrated optimization problem. We derive a kernel logistic regression clas ...

23 Training a wireless sensor network

A. Wadaa, S. Olariu, L. Wilson, M. Eltoweissy, K. Jones February 2005 Mobile Networks and Applications, Volume 10 Issue 1-2

Publisher: Kluwer Academic Publishers

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(487.16 KB) terms

The networks considered in this paper consist of tiny energy-constrained commodity sensors massively deployed, along with one or more sink nodes providing interface to the outside world. Our contribution is to propose a scalable energy-efficient training protocol for nodes that are initially anonymous, asynchronous and unaware of their location. Our

Results (page 2): ("training" OR train OR learn) AND (sniff or smell OR scent) AND (loc... Page 2 of 6

training protocol imposes a flexible and intuitive coordinate system onto the deployment area and partitions the anonymous nodes into clusters where ...

Keywords: clustering, dynamic coordinate system, energy-efficient protocols, security, self-organization, training, wireless sensor networks

24 Oral session 1: image/video/learning: Tracking concept drifting with an online-

optimized incremental learning framework

Jun Wu, Dayong Ding, Xian-Sheng Hua, Bo Zhang

November 2005 Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval MIR '05

Publisher: ACM Press

Full text available: pdf(395.54 KB) Additional Information: full citation, abstract, references, index terms

Concept drifting is an important and challenging research issue in the field of machine learning. This paper mainly addresses the issue of semantic concept drifting in time series such as video streams over a relatively long period of time. An Online-Optimized Incremental Learning framework is proposed as an example learning system for tracking the drifting concepts. Furthermore, a set of measures are defined to track the process of concept drifting in the learning system. These tracking measure ...

Keywords: TREC video retrieval evaluation, concept drifting, gaussian mixture model, incremental learning, video content analysis

25 A multiple track animator system for motion synchronization (abstract only)





D. Fortin, J. F. Lamy, D. Thalmann

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

MUTAN (MUltiple Track Animator) is an interactive system for independently animating three-dimensional graphical objects. MUTAN can synchronize different motions; it is also a good tool for synchronizing motion with sound, music, light or smell. To indicate moments in time, marks are associated with appropriate frame numbers. MUTAN enables the marks to be manipulated. An animator can also adjust one motion without modifying the others. To make this possible, MUTAN handles several tracks at a tim ...

26 Hip, hype and hope—the three faces of virtual worlds (panel session)



Bob Jacobson, John Barlow, Esther Dyson, Timothy Leary, William Bricken, Warren Robinett, Jaron Lanier

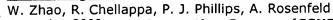
August 1990 ACM SIGGRAPH 90 Panel Proceedings SIGGRAPH '90

Publisher: ACM Press

Full text available: pdf(5.03 MB)

Additional Information: full citation, index terms

27 Face recognition: A literature survey



December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(4.28 MB)

Additional Information: full citation, abstract, references, citings, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems

Results (page 2): ("training" OR train OR learn) AND (sniff or smell OR scent) AND (loc... Page 3 of 6

have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

28 Computing the velocity field along contours (abstract only)

Ellen C. Hildreth

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

In this paper, we present a computational study of the measurement of motion. Similar to other visual processes, the motion of elements is not determined uniquely by information in the changing image; additional constraint is required to compute a unique velocity field. Given this global ambiguity of motion, local measurements from the changing image cannot possibly specify a unique local velocity vector, and in fact, may only specify one component of velocity. Computation of the full two-dimens ...

29 Designing for specific cultures: Localized iterative design for language learning in

underdeveloped regions: the PACE framework

Matthew Kam, Divya Ramachandran, Varun Devanathan, Anuj Tewari, John Canny ,
April 2007 Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07

Publisher: ACM Press

Full text available: pdf(532.73 KB) Additional Information: full citation, abstract, references, index terms

Poor literacy remains a decisive barrier to the economic empowerment of many people in the developing world. Of particular importance is literacy in a widely spoken "world language" such as English, which is typically a second language for these speakers. For complex reasons, schools are often not effective as vehicles for second language learning. In this paper we explore game-like language learning on cell phones. We argue that phones are an excellent technology platform in the typical ecol ...

Keywords: content development, developing world, digital divide, language learning, literacy, localization, third world

30 Representing and reasoning about change (abstract only)

Reid G. Simmons, Randall Davis

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

A recent trend in artificial intelligence research is the construction of expert systems capable of reasoning from a detailed model of the objects in their domain and the processes that affect those objects. We describe a system being built in this fashion, designed to solve a class of problems known as geologic interpretation: given a cross-section of the Earth's crust (showing formations, faults, intrusions, etc.), hypothesize a sequence of geologic events whose occurrence could have formed th ...

31 3D balance in legged locomotion: modeling and simulation for the one-legged case

(abstract only)

Seshashayee S. Murthy, Marc H. Raibert

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

This paper explores the notion that the motion of dynamically stable 3D legged systems can be decomposed into a planar part that accounts for large leg and body motions that provide locomotion, and an extra-planar part that accounts for subtle corrective motions

that maintain planarity. The large planar motions raise and lower the legs to achieve stepping, and they propel the system forward. The extra-planar motions ensure that the legged system remains in the plane. A solution of this form is s ...

32 Knowledge-based animation (abstract only)

David Zeltzer

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

In constructing a goal-directed system for automatic motion synthesis for computer animation, the essential problem is to account for the extraordinary flexibility and adaptability exhibited by moving creatures. The selective *potentiation* and *depotentiation* of elements of a hierarchy of motor control programs is a key to the generation of adaptive motor control. The constraints on motion sequences are analyzed, and mechanisms for achieving continuity of movements are discussed. The ...

33 "Graphical marionette" (abstract only)

Carol M. Ginsberg, Delle Maxwell

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

Many person-modelling 3-D animation systems are currently being developed, but often suffer from confusing and elaborate user interfaces. Given over 200 degrees of freedom, the human form is capable of such intricate motion that its specification and display presents considerable difficulty to both animators and animation systems designers. Given such difficulties with single figures, the orchestration of several in parallel remains a major challenge. In pursuit of understanding thoroughly this ...

34 Motion analysis of grammatical processes in a visual-gestural language (abstract

only)

Howard Poizner, Edward S. Klima, Ursula Bellugi, Robert B. Livingston January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

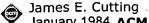
Publisher: ACM Press

Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

Movement of the hands and arms through space is an essential element both in the lexical structure of American Sign Language (ASL), and, most strikingly, in the grammatical structure of ASL: it is in patterned changes of the movement of signs that many grammatical attributes are represented. These grammatical attributes occur as an isolable superimposed layer of structure, as demonstrated by the accurate identification by deaf signers of these attributes presented only as dynamic point-light dis ...

35 Perceiving and recovering structure from events (abstract only)



January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

How do perceivers identify a moving object as seen against a changing background? How do figure and ground separate? Such questions have engaged psychologists for at least seventy years. In particular, the Gestalt psychologists were deeply concerned with the latter, but had only the illdefined notion of *common fate*, or uniform density, for dealing with the former. The coherent flow of a moving object is seen, somehow, by extracting those aspects of the whole that segregate it from the gro ...

Selective attention to aspects of motion configurations: common vs. relative motion (abstract only)

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James R. Pomerantz, Nelson Toth

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB) Additional

Additional Information: full citation, abstract

The motion of a dot configuration may be described as the sum of its relative (part) and common (whole) motion components. Is either of these two component dimensions extracted before the other in human perception? Reaction time data from selective attention experiments show that neither dimension can be responded to without interference from the other, implying that neither is processed more quickly than or ahead of the other. Following Garner's nomenclature, common and relative motions appear ...

37 The cross-ratio and the perception of motion and structure (abstract only)



Will

William A. Simpson

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

Followers of J. J. Gibson have proposed that the cross-ratio, a projective invariant for four collinear points, underlies the perception of objects in motion. Experiment 1 tested this theory by presenting subjects with displays of 3 or 4 dots rotating in depth. Accuracy was equally high in both conditions for motion and structure judgements, so the cross-ratio cannot be necessary. Experiments 2 and 3 tested the cue of lining up, and some evidence for its use was found. The results are consistent ...

Perception of rotation in depth: the psychophysical evidence (abstract only)



Myron L. Braunstein

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

There are a variety of ways in which motion in the environment can provide information about three-dimensional relationships. One transformation that has received increasing attention in both the visual perception literature and in the machine vision literature is rotation in depth. This transformation, which includes any rigid rotation other than a rotation about the line of sight, can provide both a strong impression of depth and specific information about three-dimensional relationships in a ...

39 Multicomputer architectures for real-time perception (abstract only)



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Leonard Uhr

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

This paper examines the computing demands that must be met by a system capable of scene description and perception of real-world moving objects. A brief survey is made of the major different kinds of computer systems that have been built, or designed, and of the different sources of potential speed-up of processing that have been exploited. Finally, a number of alternative possible hardware architectures that might be capable of handling real-time perception of moving objects are suggested, and ...

40 A hybrid approach to structure-from-motion (abstract only)



Aaron Bobick

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

A method is presented for computing structure from the motion of rigid objects which are rotating about a fixed axis. The input consists of two discrete frames containing the positions and instantaneous direction vectors of three points in orthographic projection.

Results (page 2): ("training" OR train OR learn) AND (sniff or smell OR scent) AND (loc... Page 6 of 6

Because only the direction of the velocity vectors and not their magnitudes is needed, the method is insensitive to errors in velocity magnitude estimation. This type of computation could be important in recovering the 3-dimensional st ...

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Relevance scale

41 Determining 3-D motion parameters of a rigid body: a vector-geometrical approach



(abstract only)

B. L. Yen, T. S. Huang January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

A vector-geometrical approach is given for the determination of 3-D motion parameters of a rigid body from point correspondences over 2 time sequential images. The resulting algorithms are similar to existing methods. However, the geometrical interpretations provide much valuable insight into the nature of the problem and the uniqueness question.

42 Determining motion parameters for scenes with translation and rotation (abstract



only)

Charles Jerian, Ramesh Jain

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

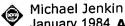
Publisher: ACM Press

Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

A study of methods that determine the rotation parameters of a camera moving through synthetic and real scenes is conducted. Algorithms that combine ideas of Jain and Prazdny are developed to find translational and rotational parameters. An argument is made for using hypothesized motion parameters rather than relaxation labelling to find correspondence.

Tracking three dimensional moving light displays (abstract only)



January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

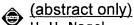
Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

A method is presented for tracking the three-dimensional motion of points from their changing two-dimensional perspective images as viewed by a nonconvergent binocular vision system. The algorithm relies on a general smoothness assumption to guide the tracking process, and application of the tracking algorithm to a three-dimensional moving light display based on Cutting's Walker program as well as other domains are discussed. Evidence is presented relating the tracking algorithm to certain belief ...

On the estimation of dense displacement vector fields from image sequences





H. H. Nagel

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

Based on recent experimental as well as theoretical investigations, a generalization of previously published approaches towards the estimation of displacement vector fields is formulated. The calculus of variation allows to transform this approach into a set of two partial differential equations for the two components of the displacement vector field. Some simplifying assumptions facilitate the derivation of an iterative solution approach which can be studied in closed form.

45 Adapting optical-flow to measure object motion in reflectance and x-ray image

sequences (abstract only)

Nancy Cornelius, Takeo Kanade

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract Full text available: pdf(3.92 MB)

This paper adapts Horn and Schunck's work on optical flow to the problem of determining arbitrary motions of objects from 2-dimensional image sequences. The method allows for gradual changes in the way an object appears in the image sequence, and allows for flow discontinuities at object boundaries. We find velocity fields that give estimates of the velocities of objects in the image plane. These velocities are computed from a series of images using information about the spatial and temporal bri ...

46 Complex logarithmic mapping and the focus of expansion (abstract only)



Ramesh Jain

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB)

Additional Information: full citation, abstract

Complex logarithmic mapping has been shown to be useful for the size, rotation, and projection invariance of objects in a visual field for an observer translating in the direction of its gaze. Assuming known translational motion of the observer, the ego-motion polar transform was successfully used in segmentation of dynamic scenes. By combining the two transforms one can exploit features of both transforms and remove some of the limitations which restrict the applicability of both. In this paper ...

47 Determining the instantaneous axis of translation from optic flow generated by



<u>arbitrary sensor motion (abstract only)</u>

J. H. Rieger, D. T. Lawton

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

This paper develops a simple and robust procedure for determining the instantaneous axis of translation from image sequences induced by unconstrained sensor motion. The procedure is based upon the fact that difference vectors at discontinuities in optic flow fields generated by sensor motion relative to a stationary environment are oriented along translational field lines. This is developed into a procedure consisting of three steps: 1) locally computing difference vectors from an optic flow fie ...

48 Real and apparent motion: one mechanism or two? (abstract only)



Marc Green, Michael von Grunau

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

Two direction selective adaptation experiments were conducted to investigate whether real and apparent motion are processed by a single visual mechanism. Previous studies with real motion have shown that adaptation to a grating drifting in one direction has an effect on perceived motion of subsequently viewed test gratings (the velocity aftereffect) and also selectively raises contrast threshold (direction-specific threshold elevation). We conducted analogous experiments in which observers adapt ...

49 The perception of coherent motion in two-dimensional patterns (abstract only)

Edward H. Adelson, J. Anthony Movshon

January 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

When one looks at a two-dimensional scene of moving objects, one can usually assign a velocity to each point in that scene with little effort. This suggests that some early visual processes are able to generate a two-dimensional velocity map using fast parallel computations. But it is not obvious how this should be done, and we are currently trying to understand how the human visual system does it.

50 The Pyramid Match Kernel: Efficient Learning with Sets of Features

Kristen Grauman, Trevor Darrell

May 2007 The Journal of Machine Learning Research, Volume 8

Publisher: MIT Press

Full text available: pdf(7.86 MB) Additional Information: full citation, abstract, index terms

In numerous domains it is useful to represent a single example by the set of the local features or parts that comprise it. However, this representation poses a challenge to many conventional machine learning techniques, since sets may vary in cardinality and elements lack a meaningful ordering. Kernel methods can learn complex functions, but a kernel over unordered set inputs must somehow solve for correspondences---generally a computationally expensive task that becomes impractical for large ...

51 The Pyramid Match Kernel: Efficient Learning with Sets of Features

Kristen Grauman, Trevor Darrell

October 2007 The Journal of Machine Learning Research, Volume 8

Publisher: MIT Press

Full text available: pdf(7.86 MB) Additional Information: full citation, abstract, index terms

In numerous domains it is useful to represent a single example by the set of the local features or parts that comprise it. However, this representation poses a challenge to many conventional machine learning techniques, since sets may vary in cardinality and elements lack a meaningful ordering. Kernel methods can learn complex functions, but a kernel over unordered set inputs must somehow solve for correspondences---generally a computationally expensive task that becomes impractical for large ...

52 <u>Local Discriminant Wavelet Packet Coordinates for Face Recognition</u>

Chao-Chun Liu, Dao-Qing Dai, Hong Yan

May 2007 The Journal of Machine Learning Research, Volume 8

Publisher: MIT Press

Full text available: pdf(407.99 KB) Additional Information: full citation, abstract, references, index terms

Face recognition is a challenging problem due to variations in pose, illumination, and expression. Techniques that can provide effective feature representation with enhanced discriminability are crucial. Wavelets have played an important role in image processing for its ability to capture localized spatial-frequency information of images. In this paper, we propose a novel *local discriminant coordinates* method based on wavelet packet for face recognition to compensate for these variatio ...

53 <u>Local Discriminant Wavelet Packet Coordinates for Face Recognition</u> Chao-Chun Liu, Dao-Qing Dai, Hong Yan

Results (page 3): ("training" OR train OR learn) AND (sniff or smell OR scent) AND (loc... Page 4 of 6

October 2007 The Journal of Machine Learning Research, Volume 8

Publisher: MIT Press

Full text available: pdf(408.00 KB) Additional Information: full citation, abstract, index terms

Face recognition is a challenging problem due to variations in pose, illumination, and expression. Techniques that can provide effective feature representation with enhanced discriminability are crucial. Wavelets have played an important role in image processing for its ability to capture localized spatial-frequency information of images. In this paper, we propose a novel *local discriminant coordinates* method based on wavelet packet for face recognition to compensate for these variatio ...

54 Very Fast Online Learning of Highly Non Linear Problems

Aggelos Chariatis

October 2007 The Journal of Machine Learning Research, Volume 8

Publisher: MIT Press

Full text available: pdf(1.79 MB)

Additional Information: full citation, abstract, index terms

The experimental investigation on the efficient learning of highly non-linear problems by online training, using ordinary feed forward neural networks and stochastic gradient descent on the errors computed by back-propagation, gives evidence that the most crucial factors for efficient training are the hidden units' differentiation, the attenuation of the hidden units' interference and the selective attention on the parts of the problems where the approximation error remains high. In this repo ...

55 Evolutionary strategies and evolutionary programming: A differential evolution based



incremental training method for RBF networks
Junhong Liu, Jouni Lampinen

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

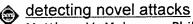
Full text available: pdf(196.47 KB) Additional Information: full citation, abstract, references, index terms

The Differential Evolution (DE) is a floating-point encoded evolutionary strategy for global optimization. It has been demonstrated to be an efficient, effective, and robust optimization method, especially for problems containing continuous variables. This paper concerns applying a DE-based algorithm to training Radial Basis Function (RBF) networks with variables including centres, weights, and widths of RBFs. The proposed algorithm consists of three steps: the first step is the initial tuning, ...

Keywords: differential evolution, evolutionary strategies, neural networks, optimization, radial basis functions

56 Industry track papers: Learning nonstationary models of normal network traffic for





Matthew V. Mahoney, Philip K. Chan

July 2002 Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '02

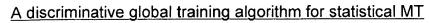
Publisher: ACM Press

Full text available: pdf(1.12 MB)

Additional Information: full citation, abstract, references, citings, index terms

Traditional intrusion detection systems (IDS) detect attacks by comparing current behavior to signatures of known attacks. One main drawback is the inability of detecting new attacks which do not have known signatures. In this paper we propose a learning algorithm that constructs models of normal behavior from attack-free network traffic. Behavior that deviates from the learned normal model signals possible novel attacks. Our IDS is unique in two respects. First, it is nonstationary, modeling pr ...

57



Christoph Tillmann, Tong Zhang

July 2006 Proceedings of the 21st International Conference on Computational Linguistics and the 44th annual meeting of the ACL ACL '06

Publisher: Association for Computational Linguistics

Full text available: pdf(194.76 KB) Additional Information: full citation, abstract, references

This paper presents a novel training algorithm for a linearly-scored block sequence translation model. The key component is a new procedure to directly optimize the global scoring function used by a SMT decoder. No translation, language, or distortion model probabilities are used as in earlier work on SMT. Therefore our method, which employs less domain specific knowledge, is both simpler and more extensible than previous approaches. Moreover, the training procedure treats the decoder as a black ...

58 A block bigram prediction model for statistical machine translation

Christoph Tillmann, Tong Zhang

July 2007 ACM Transactions on Speech and Language Processing (TSLP), Volume 4 Issue

Publisher: ACM Press

Full text available: pdf(337.68 KB) Additional Information: full citation, abstract, references, index terms

In this article, we present a novel training method for a localized phrase-based prediction model for statistical machine translation (SMT). The model predicts block neighbors to carry out a phrase-based translation that explicitly handles local phrase reordering. We use a maximum likelihood criterion to train a log-linear block bigram model which uses real-valued features (e.g., a language model score) as well as binary features based on the block identities themselves (e.g., block bigram fe ...

Keywords: Statistical machine translation, machine learning, maximum entropy, stochastic gradient descent

From promoter sequence to expression: a probabilistic framework



Eran Segal, Yoseph Barash, Itamar Simon, Nir Friedman, Daphne Koller
April 2002 Proceedings of the sixth annual international conference on
Computational biology RECOMB '02

Publisher: ACM Press

Full text available: pdf(3.22 MB) Additional Information: full citation, abstract, citings, index terms

We present a probabilistic framework that models the process by which transcriptional binding explains the mRNA expression of different genes. Our joint probabilistic model unifies the two key components of this process: the prediction of gene regulation events from sequence motifs in the gene's promoter region, and the prediction of mRNA expression from combinations of gene regulation events in different settings. Our approach has several advantages. By learning promoter sequence motifs that ar ...

60 <u>Social interaction: From entry to access: how shareability comes about</u> Eva Hornecker, Paul Marshall, Yvonne Rogers



August 2007 Proceedings of the 2007 conference on Designing pleasurable products and interfaces DPPI '07

Publisher: ACM

Full text available: pdf(862.89 KB) Additional Information: full citation, abstract, references, index terms

Shareability is a design principle that refers to how a system, interface, or device engages a group of collocated, co-present users in shared interactions around the same content (or the same object). This is broken down in terms of a set of components that facilitate or constrain the way an interface (or product) is made shareable. Central are the notions of access points and entry points. Entry points invite and entice people into engagement, providing an advance overview, minimal barriers ...

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PAT.

NO.

Title

- 1 7,313,447 T Temporary expanding integrated monitoring network
- 2 7,313,442 T Method of treating mood disorders and/or anxiety disorders by brain stimulation
- 3 7,305,581 Service clusters and method in a processing system with failover capability
- 4 7,305,389 T Content propagation for enhanced document retrieval
- 5 7,301,453 Locator system and method
- 6 7,295,552 T Cluster switching architecture
- 7 7,295,124 T Reflex tester and method for measurement
- 8 7,293,002 T Self-organizing data driven learning hardware with local interconnections
- 9 7,290,367 T Tear resistant gel articles for various uses
- 10 7,290,285 T Systems and methods for distributing and viewing electronic documents
- 11 7,290,072 T Protocols and standards for USB peripheral communications
- 12 7,289,985 T Enhanced document retrieval
- 13 7,288,265 T Treating viral infection at smallpox vaccination site
- 14 7,282,225 T Composition and methods for improving retinal health
- 15 7,280,975 **T** System and method for determining and/or transmitting and/or establishing communication with a mobile device user for providing, for example, concessions, tournaments, competitions, matching, reallocating, upgrading, selling tickets, other event admittance means, goods and/or services
- 16 7,279,585 T Lipophilic electrophoretic probes
- 17 7,279,493 T Therapeutic agents useful for treating pain
- 18 7,277,822 T Embedded system for diagnostics and prognostics of conduits
- 19 7,272,530 T System for monitoring an environment
- 20 7,269,573 T Virtual-product presentation system

Patent Database Search Results: ("training" OR train OR learn) AND (sniff or smell OR s... Page 2 of 2

- 21 7,263,474 T Cultural simulation model for modeling of agent behavioral expression and simulation data visualization methods
- 22 7,263,102 T Multi-path gateway communications device
- 23 7,262,194 T Therapeutic agents useful for treating pain
- 24 7,260,568 T Verifying relevance between keywords and web site contents
- 25 7,256,193 T Therapeutic agents useful for treating pain
- 26 7,248,972 T Computer code for portable sensing
- 27 7,248,171 T RFID systems for automatically triggering and delivering stimuli
- 28 7,243,649 T Anesthesia administration mask and eye shield
- 29 7,242,152 T Systems and methods of controlling light systems
- 30 7,240,191 T Method and apparatus for initializing security information on a network device
- 31 7,231,430 T Reconfigurable, virtual processing system, cluster, network and method
- 32 7,231,060 T Systems and methods of generating control signals
- 33 7,230,155 T Method for identifying an agonist of neuronal calcium sensor-1 (NCS-1), for therapy of CNS disorders
- 34 7,226,292 T Computer enabled training of a user to validate assumptions
- 35 7,224,698 T Edge side assembler
- 36 7,216,335 T Operational semantics rules for governing evolution of processes and queries as processes
- 37 7,216,109 **T** System and method for reallocating and/or upgrading and/or selling tickets, other event admittance means, goods and/or services
- 38 7,209,153 T System and method of representing personal profile in auditory form
- 39 7,206,559 T System and method for a mobile computing device to control appliances
- 40 7,204,425 **T** Enhanced identification appliance
- 41 7,203,907 T Multi-modal synchronization
- 42 7,203,665 **T** System and method for interactive messaging and/or allocating and/or upgrading and/or rewarding tickets, other event admittance means, goods and/or services
- 43 7,202,613 T Controlled lighting methods and apparatus
- 44 7,200,889 T Device and process for cleaning electrified contact rail insulators for rail rapid transit systems
- 45 7,200,614 T Dual information system for contact center users
- 46 7,198,008 T Device for the training of scent discriminating detector dogs
- 47 7,197,502 **T** Machine-implemented activity management system using asynchronously shared activity data objects and journal data items
- 48 7,194,466 T Object clustering using inter-layer links
- 49 7,189,353 T Use of spatiotemporal response behavior in sensor arrays to detect analytes in fluids
- 50 7,177,851 T Method and apparatus for dynamic, real-time market segmentation



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- PAT.
- NO.
- Title
- 51 7,177,814 Dynamic grammar for voice-enabled applications
- 52 7,174,390 T Address resolution protocol system and method in a virtual network
- 53 7,167,815 T Measuring the intensity of odors
- 54 7,162,454 System and method for reallocating and/or upgrading and/or selling tickets, other even admittance means, goods and/or services
- 55 7,161,313 T Light emitting diode based products
- 56 7,149,961 T Automatic generation of presentations from "path-enhanced" multimedia
- 57 7,146,218 T Adaptive method and apparatus for forecasting and controlling neurological disturbances under a multi-level control
- 58 7,145,898 T System, method and article of manufacture for selecting a gateway of a hybrid communication system architecture
- 59 7,144,553 T Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids
- 60 7,141,549 T Proteins and nucleic acids encoding same
- 61 7,136,716 T Method for providing control to an industrial process using one or more multidimensional variables
- 62 7,130,763 T Identification of effective elements in complex systems
- 63 7,129,166 T Method of forming an electronic device
- 64 7,122,152 **T** Spatiotemporal and geometric optimization of sensor arrays for detecting analytes fluids
- 65 7,122,018 T Device and method for treatment of wounds with nitric oxide
- 66 7,122,004 T Method and apparatus of enhancing learning capacity

- 67 7,117,487 T Structural equivalence of expressions containing processes and queries
- 68 7,115,884 T Self-encoding fiber optic sensor
- 69 7,115,653 T Small organic molecule regulators of cell proliferation
- 70 7,107,347 **T** Method and apparatus for network deception/emulation
- 71 7,098,891 **T** Method for providing human input to a computer
- 72 7,092,928 **T** Intelligent portal engine
- 73 7,091,856 T Monitoring access via a passage
- 74 7,089,780 T Apparatus, systems and methods for detecting and transmitting sensory data over a computer network
- 75 7,089,763 T Portable, potable water recovery and dispensing apparatus
- 76 7,088,727 **T** System and method for establishing network connection with unknown network and/or user device
- 77 7,079,688 T Pattern recognition
- 78 7,078,046 T Electrostatically-sprayable topical compositions having insulating external phase and conductive internal phase
- 79 7,076,371 T Non-invasive diagnostic and monitoring method and apparatus based on odor detection
- 80 7,073,129 Automated selection of appropriate information based on a computer user's context
- 81 7,071,335 T 2-pyridinyl-1-piperazine therapeutic agents useful for treating pain
- 82 7,069,265 T Information coding and retrieval system and method thereof
- 83 7,068,789 T Peer-to-peer name resolution protocol (PNRP) group security infrastructure and method
- 84 7,065,082 T Content-based forwarding/filtering in a network switching device
- 85 7,063,535 T System and method for facilitating early childhood brain development
- 86 7,062,508 **T** Method and computer-based system for non-probabilistic hypothesis generation and verification
- 87 7,062,505 T Content management system for the telecommunications industry
- 88 7,056,124 T Method and system for creating, administering and automating scoring of dimensional modeling constructed response items
- 89 7,055,142 T Permutation nuances of the integration of processes and queries as processes at queues
- 90 7,050,990 T Information distribution system
- 91 7,050,955 T System, method and data structure for simulated interaction with graphical objects
- 92 7,050,889 T Method and system for a computer controlled racing network
- 93 7,048,953 T Methods and apparatus to prevent, treat and cure infections of the human respiratory system by pathogens causing severe acute respiratory syndrome (SARS)
- 94 7,046,151 T Interactive body suit and interactive limb covers
- 95 7,043,535 T Systems and methods for combined browsing and searching in a document collection based on information scent
- 96 7,032,115 **T** Information processing apparatus and method
- 97 7,031,945 **T** System and method for reallocating and/or upgrading and/or rewarding tickets, other event admittance means, goods and/or services
- 98 7,031,778 **T** Temporary expanding integrated monitoring network
- 99 7,028,844 T Dried lavender flower separator system and method
- 100 7,019,753 **T** Textual and graphical demarcation of location from an environmental database, and interpretation of measurements including descriptive metrics and qualitative values

Patent Database Search Results: ("training" OR train OR learn) AND (sniff or smell OR s... Page 3 of 3



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Refine Search ("training" OR train OR learn) AND (sniff or smell OR

PAT. Title

- 101 7,016,882 **T** Method and apparatus for evolutionary design
- 102 7,016,325 T Link context mobility method and system for providing such mobility, such as a system employing short range frequency hopping spread spectrum wireless protocols
- 103 7,013,290 T Personalized interactive digital catalog profiling
- 104 7,007,856 T Extended engine off passenger climate control system and method
- 105 7,006,446 T Detection of duplicate participants in a two-way modem environment
- 106 7,002,265 T Power supply methods and configurations
- 107 6,996,261 T Methods for physiological monitoring, training, exercise and regulation
- 108 6,991,901 T Proteins and nucleic acids encoding same
- 109 6,989,831 T Method for simulating multi-layer obscuration from a viewpoint
- 110 6,986,294 T Bulk materials management apparatus and method
- 111 <u>6,985,779</u> T <u>Monitoring system for an industrial process using one or more multidimensional variables</u>
- 112 6,984,524 T Chemiluminescent detection of explosives, narcotics, and other chemical substances
- 113 6,978,212 T System for portable sensing
- 114 6,975,944 T Method and apparatus for monitoring materials used in electronics
- 115 6,974,818 T 1,2,5-thiadiazol-3-YL-piperazine therapeutic agents useful for treating pain
- 116 6,973,628 T Image displaying apparatus and image displaying method and program medium
- 117 6,971,044 **T** Service clusters and method in a processing system with failover capability
- 118 <u>6,965,868</u> **T** <u>System and method for promoting commerce, including sales agent assisted commerce, in a networked economy</u>

- 119 6,965,205 T Light emitting diode based products
- 120 6,964,849 T Proteins and nucleic acids encoding same
- 121 6,962,675 I Use of spatiotemporal response behavior in sensor arrays to detect analytes in fluids
- 122 6,962,495 T Computer enabled training of a user to validate assumptions
- 123 6,959,166 **T** Interactive toy
- 124 6,949,089 T Method of providing a series of disposable absorbent articles to consumers
- 125 6,947,790 T Neurocognitive function EEG measurement method and system
- 126 6,947,761 **T** Method and system for improving the efficiency of state information transfer over a wireless communications network
- 127 6,946,300 T Multi-modal detection of explosives, narcotics, and other chemical substances
- 128 6,946,196 T Anti-microbial fiber and fibrous products
- 129 6,926,708 T Female clean intermittent catheter system
- 130 6,922,559 **T** Unlicensed wireless communications base station to facilitate unlicensed and licensed wireless communications with a subscriber device, and method of operation
- 131 6,917,845 T Method for monitoring environmental condition using a mathematical model
- 132 <u>6,909,708</u> **T** <u>System, method and article of manufacture for a communication system architecture including video conferencing</u>
- 133 6,904,110 T Channel equalization system and method
- 134 <u>6,895,338</u> T <u>Measuring and analyzing multi-dimensional sensory information for identification purposes</u>
- 135 6,895,305 T Robotic apparatus and wireless communication system
- 136 6,890,715 T Sensors of conducting and insulating composites
- 137 6,890,304 © Device for diagnosing physiological state and device for controlling the same
- 138 6,885,317 Touch-typable devices based on ambiguous codes and methods to design such devices
- 139 6,884,238 T Method of providing a series of disposable absorbent articles to consumers
- 140 <u>6,875,453</u> **T** Non-toxic disinfectant containing a isopropyl alcohol and sesame oil composition with lemon oil and menthol
- 141 6,874,029 T Method and system for mediating interactive services over a wireless communications network
- 142 6,865,563 T Neuron network modeling
- 143 <u>6,865,509</u> T System for providing control to an industrial process using one or more multidimensional variables
- 144 6,865,368 T System and method for producing educational material
- 145 6,864,261 T Therapeutic agents useful for treating pain
- 146 6,863,535 T Personal mnemonic generator
- 147 6,853,920 T Control for an industrial process using one or more multidimensional variables
- 148 6,843,158 T Method and apparatus for detecting target objects
- 149 6,840,379 T Male clean intermittent catheter system
- 150 <u>6,837,095</u> **T** <u>Apparatus, systems and methods for detecting and transmitting sensory data over a computer network</u>



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Results of Search in US Patent Collection db for: (((("training" OR train) OR learn) AND ((sniff OR smell) OR scent)) AND (local OR localized)): 381 patents.

Hits 151 through 200 out of 381

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PAT. NO. Title

- 151 6,821,526 T Compositions and devices using a spinosyn compound for control of insects
- 152 6,820,012 T Computer code for portable sensing
- 153 6,817,980 T Automated diagnostic system and method including disease timeline
- 154 6,810,017 T Graphical user interface system and method for organized network analysis
- 155 6,809,744 T Method for simulating flow of an extinguishing agent
- 156 6,809,743 T Method of generating three-dimensional fire and smoke plume for graphical display
- 157 <u>6,807,159</u> **T** <u>Methodology for managing power consumption in master driven time division duplex wireless network</u>
- 158 6,805,865 T Compositions and methods for treating cancer and hyperproliferative disorders
- 159 <u>6,797,944</u> **T** <u>Laser desorption and detection of explosives, narcotics, and other chemical substances</u>
- 160 <u>6,795,688</u> T Method and system for personal area network (PAN) degrees of mobility-based configuration
- 161 6,794,440 T Tear resistant gelatinous elastomer compositions and articles for use as fishing bait
- 162 6,780,213 **T** Personal air cleaning apparatus
- 163 6,775,663 **T** Information coding and retrieval system and method thereof
- 164 6,769,013 **T** Distributed system for interactive collaboration
- 165 6,767,325 T Automated diagnostic system and method including synergies
- 166 6,764,447 T Automated diagnostic system and method including alternative symptoms
- 167 6,759,206 T System for cell-based screening
- 168 6,759,010 T Use of an array of polymeric sensors of varying thickness for detecting analytes in

- Patent Database Search Results: ("training" OR train OR learn) AND (sniff or smell OR s... Page 2 of 3 fluids
- 169 <u>6,754,181</u> T System and method for a directory service supporting a hybrid communication system architecture
- 170 <u>6,748,316</u> [T] Apparatus and method for presenting navigation information based on instructions described in a script
- 171 6,746,960 T Electronic techniques for analyte detection
- 172 6,746,399 T Automated diagnostic system and method including encoding patient data
- 173 6,736,642 T Computer enabled training of a user to validate assumptions
- 174 <u>6,735,830</u> **T** <u>Ion generating device</u>
- 175 <u>6,731,625</u> **T** System, method and article of manufacture for a call back architecture in a hybrid network with support for internet telephony
- 176 6,730,027 T Automated diagnostic system and method including multiple diagnostic modes
- 177 6,728,219 T Graphical user interface system and method for visually gauging network performance
- 178 6,726,935 T Pharmaceutical composition for preventing and treating erectile impotence using purified sumsoo extract
- 179 6,723,428 **T** Anti-microbial fiber and fibrous products
- 180 6,721,681 T Chronometric, communication, identification, and tracking tag
- 181 6,713,389 T Method of forming an electronic device
- 182 6,707,794 Method, system and computer program product for physical link layer handshake protocol analysis
- 183 6,705,872 Method and system for creating and maintaining assessments
- 184 6,702,743 T Ultrasound apparatus and method for tissue resonance analysis
- 185 <u>6,697,731</u> Apparatus and method for presenting navigation information based on instructions described in a script
- 186 6,696,495 T Treatment of disorders secondary to organic impairments
- 187 6,678,312 T Method for extending digital receiver sensitivity using analog correlation
- 188 <u>6,668,167</u> **T** <u>Method and apparatus for sharing mobile user event information between wireless networks and fixed IP networks</u>
- 189 <u>6,652,457</u> **T** <u>Stimulus-response conditioning process</u>
- 190 6,649,416 T Intelligent electro-optical sensor array and method for analyte detection
- 191 <u>6,647,426</u> **T** <u>Apparatus and method for integrating an unlicensed wireless communications system and a licensed wireless communications system</u>
- 192 <u>6,647,298</u> T <u>Implantable medical device with variable incoming communication signal discrimination, and method for operating same</u>
- 193 <u>6,640,976</u> **T** <u>Male clean intermittent catheter system</u>
- 194 <u>6,638,317</u> **T** Apparatus and method for generating digest according to hierarchical structure of topic
- 195 6,637,372 T Apparatus and methods for testing pain sensitivity
- 196 <u>6,632,461</u> T <u>Use of tropical root crops in effective intervention strategies for treating difficult and complex cases and chronic diseases</u>
- 197 6,631,333 (T Methods for remote characterization of an odor
- 198 6,627,154 T Electronic techniques for analyte detection
- 199 6,625,500 T Self-optimizing method and machine
- 200 6,611,525 T Apparatus for and method of learning MAC addresses in a LAN emulation network

Patent Database Search Results: ("training" OR train OR learn) AND (sniff or smell OR s... Page 3 of 3

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Results of Search in US Patent Collection db for: (((("training" OR train) OR learn) AND ((sniff OR smell) OR scent)) AND (local OR localized)): 381 patents.

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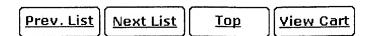
PAT.

Title

- 201 6,610,511 T Drosophila odorant receptors
- 202 6,610,367 T Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids
- 203 6,607,382 T Methods and systems for concurrent tooth repositioning and substance delivery
- 204 <u>6,606,664</u> T Computer architecture for managing courseware in a shared use operating environment
- 205 6,606,566 T Computer code for portable sensing
- 206 6,604,094 T Simulating human intelligence in computers using natural language dialog
- 207 <u>6,602,463</u> **T** <u>Scented room with an airflow with varying fragrances</u>
- 208 <u>6,598,459</u> **T** <u>Artificial olfactory system</u>
- 209 6,596,756 T Treatment of fibromyalgia
- 210 <u>6,594,524</u> **T** Adaptive method and apparatus for forecasting and controlling neurological disturbances under a multi-level control
- 211 6,594,382 T Neural sensors
- 212 6,585,990 T Compositions and devices using a spinosyn compound for control of insects
- 213 6,585,896 T Methods and apparatus for molecular induction technology to create changes in the energetic characteristics of various materials, and their use in the production of molecular changes in other media
- 214 6,581,324 T Method of controlling pests and associated apparatus
- 215 6,575,902 T Vigilance monitoring system
- 216 6,571,650 T Variable headspace sampling system
- 217 6,569,093 **T** Automated diagnostic system and method including disease timeline

http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=%2Fnetahtml%... 1/7/2008

- 218 6,558,682 T Discontinuous films from skin care compositions
- 219 6,558,164 T Method and system for simulating travel
- 220 6,553,355 T AUTOPOIETIC NETWORK SYSTEM ENDOWED WITH DISTRIBUTED
 ARTIFICIAL INTELLIGENCE FOR THE SUPPLY OF HIGH VOLUME HIGHSPEED MULTIMEDIA TELESTHESIA TELEMETRY, TELEKINESIS,
 TELEPRESENCE, TELEMANAGEMENT, TELECOMMUNICATIONS, AND
 DATA PROCESSING SERVICES
- 221 6,544,485 T Electro-kinetic device with enhanced anti-microorganism capability
- 222 6,543,365 T Non-lethal projectile systems
- 223 6,539,296 T Land vehicle communications system and process for providing information and coordinating vehicle activities
- 224 6,537,497 T Method and composition for detecting ignitable liquids
- 225 6,531,142 T Stable, electrostatically sprayable topical compositions
- 226 6,527,713 T Automated diagnostic system and method including alternative symptoms
- 227 6,524,241 T Automated diagnostic system and method including multiple diagnostic modes
- 228 <u>6,523,034</u> T <u>Method for increasing traffic on an electronic site of a system of networked computers</u>
- 229 6,519,596 T System for increasing traffic on an electronic site of a system of networked computers
- 230 6,514,504 Discontinuous films from skin care compositions
- 231 6,506,801 T Methods of treating anosmia and repopulating olfactory nerves with retinoids
- 232 6,503,831 Method of forming an electronic device
- 233 6,500,008 T Augmented reality-based firefighter training system and method
- 234 6,497,890 Anti-wrinkle preparation and method of reducing wrinkles in facial skin and neck
- 235 6,490,276 T Stackable switch port collapse mechanism
- 236 6,487,545 T Methods and apparatus for classifying terminology utilizing a knowledge catalog
- 237 6,479,509 T Method of promoting smoking cessation
- 238 6,475,143 T Automated diagnostic system and method including encoding patient data
- 239 6,468,210 T Automated diagnostic system and method including synergies
- 240 6,461,626 T Wear resistant topical compositions having improved feel
- 241 6,459,175 **T** Universal power supply
- 242 6,455,319 T Use of spatiotemporal response behavior in sensor arrays to detect analytes in fluids
- 243 6,431,122 Wireless confinement and training system for an animal
- 244 6,430,486 T Land vehicle communications system and process for providing information and coordinating vehicle activities
- 245 6,428,004 T Pregnancy and childbirth educational board game
- 246 <u>6,427,101</u> T <u>Land vehicle communications system and process for providing information and coordinating vehicle activities</u>
- 247 6,425,581 T Map puzzle game
- 248 6,424,333 T Tactile feedback man-machine interface device
- 249 6,422,061 T Apparatus, systems and methods for detecting and transmitting sensory data over a computer network
- 250 6,387,329 T Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids



Patent Database Search Results: ("training" OR train OR learn) AND (sniff or smell OR s... Page 3 of 3

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Results of Search in US Patent Collection db for: (((("training" OR train) OR learn) AND ((sniff OR smell) OR scent)) AND (local OR localized)): 381 patents.

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- 251 6,382,070 T Method and apparatus for deactivating active landminds
- 252 6,377,721 T Biosensor array comprising cell populations confined to microcavities
- 253 6,366,622 T Apparatus and method for wireless communications
- 254 6,366,296 T Media browser using multimodal analysis
- 255 6,361,785 T Method and compositions for treatment of fungal nail disease
- 256 6,361,501 T Pulse wave diagnosing device
- 257 <u>6,356,822</u> **T** <u>Land vehicle communications system and process for providing information and coordinating vehicle activities</u>
- 258 6,352,980 T Estrenes for inducting hypothalamic effects
- 259 6,347,087 T Content-based forwarding/filtering in a network switching device
- 260 6,344,190 T Method and compositions for treatment of fungal nail disease
- 261 6,341,372 T Universal machine translator of arbitrary languages
- 262 <u>6,336,072</u> **T** Apparatus and method for presenting navigation information based on instructions described in a script
- 263 6,335,927 T System and method for providing requested quality of service in a hybrid network
- 264 6,331,534 T Steroids as neurochemical stimulators of the VNO to alleviate pain
- 265 6,328,694 T Ultrasound apparatus and method for tissue resonance analysis
- 266 6,325,475 T Devices for presenting airborne materials to the nose
- 267 6,325,066 T Bladder and bowel training system with removable voice module system
- 268 6,325,012 T Bubble type submarine cabin
- 269 6,322,365 T Network-linked laser target firearm training system

- 270 6,315,569 T Metaphor elicitation technique with physiological function monitoring
- 271 6,301,564 T Dimensional dining restaurant management system
- 272 6,292,830 T System for optimizing interaction among agents acting on multiple levels
- 273 6,282,573 T Computer architecture for managing courseware in a shared use operating environment
- 274 6,275,806 T System method and article of manufacture for detecting emotion in voice signals by utilizing statistics for voice signal parameters
- 275 6,275,213 Tactile feedback man-machine interface device
- 276 6,259,889 T Active symbolic self design method and apparatus
- 277 6,251,588 T Method for evaluating oligonucleotide probe sequences
- 278 6,244,217 T Method of expanding grazing range and an animal feed supplement for use therein
- 279 6,233,545 T Universal machine translator of arbitrary languages utilizing epistemic moments
- 280 6,227,931 T Electronic interactive play environment for toy characters
- 281 6,199,034 T Methods and apparatus for determining theme for discourse
- 282 6,196,156 T Bedding articles possessing microbe-inhibiting properties
- 283 6,172,941 T Method to generate self-organizing processes in autonomous mechanisms and organisms
- 284 <u>6,170,014</u> **T** Computer architecture for managing courseware in a shared use operating environment
- 285 6,164,278 T Taste-based approach to the prevention of teeth clenching and grinding
- 286 6,160,986 **T** Interactive toy
- 287 6,151,571 System, method and article of manufacture for detecting emotion in voice signals through analysis of a plurality of voice signal parameters
- 288 <u>6,140,316</u> T Estrene steroids as neurochemical initiators of change in human hypothalamic function and related pharmaceutical compositions
- 289 6,130,892 Nomadic translator or router
- 290 6,126,595 T Device for diagnosing physiological state and device for controlling the same
- 291 6,117,860 T Steroids as neurochemical stimulators of the VNO to treat paroxistic tachycardia
- 292 6,099,319 T Neuroimaging as a marketing tool
- 293 6,097,927 **T** Active symbolic self design method and apparatus
- 294 6,088,017 T Tactile feedback man-machine interface device
- 295 6,085,195 T Internet photo booth
- 296 6,081,742 T Organism state measuring device and relaxation instructing device
- 297 <u>6,074,213</u> T <u>Fractional process simulator with remote apparatus for multi-locational training of medical teams</u>
- 298 6,066,627 T Steroids as neurochemical initiators of change in human blood levels of LH
- 299 6,057,439 **T** Steroids as neurochemical stimulators of the VNO to alleviate symptoms of PMS and anxiety
- 300 <u>6,053,951</u> **T** <u>Man/machine interface graphical code generation wizard for automatically creating MMI graphical programs</u>



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Results of Search in US Patent Collection db for: (((("training" OR train) OR learn) AND ((sniff OR smell) OR scent)) AND (local OR localized)): 381 patents.

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Refine Search ("training" OR train OR learn) AND (sniff or smell OR

PAT.

Title

- 301 <u>6,050,822</u> T <u>Electromagnetic locomotion platform for translation and total immersion of humans into virtual environments</u>
- 302 6,041,292 T Real time stenographic system utilizing vowel omission principle
- 303 6,036,966 T Skin treatment compositions comprising protein and enzyme extracts
- 304 6,027,344 T Simulant training kit for recognizing hazardous materials
- 305 <u>6,026,243</u> T <u>Sensuous expression translation system</u>
- 306 5,999,525 T Method for video telephony over a hybrid network
- 307 5,994,568 T Estrenes for inducing hypothalamic effects
- 308 5,982,352 T Method for providing human input to a computer
- 309 5,976,547 **T** Analgesic and antiphlogistic compositions and therapeutic wrap for topical delivery
- 310 5,971,977 T Surgical laser smoke plume evacuator
- 311 5,969,168 T Androstanes for inducing hypothalamic effects
- 312 <u>5,965,552</u> **T** Androstane steroids as neurochemical initators of change in human hypothalamic compositions and methods
- 313 5,943,663 T Data processing method and system utilizing parallel processing
- 314 5,941,873 T Surgical laser smoke plume evacuator
- 315 5,940,529 T Self-organizing circuits
- 316 5,939,570 T Estrenes for inducing hypothalamic effects
- 317 5,925,774 T Estrenes for inducing hypothalamic effects
- 318 5,922,359 T Skin treatment compositions comprising unoxidized nerve tissue
- 319 5,904,916 T Use of odorants to alter learning capacity

- 320 5,894,818 T Electric animal repelling and training device
- 321 <u>5,883,087</u> **T** Androstane steroids as neurochemical initiators of change in human hypothalamic function and related pharmaceutical compositions and methods
- 322 5,872,090 T Stain removal with bleach
- 323 <u>5,867,495</u> **T** <u>System, method and article of manufacture for communications utilizing calling, plans in a hybrid network</u>
- 324 <u>5,867,494</u> T <u>System, method and article of manufacture with integrated video conferencing billing in a communication system architecture</u>
- 325 <u>5,852,029</u> T <u>Aza spiro compounds acting on the cholinergic system with muscarinic agonist activity</u>
- 326 5,849,526 T Use of linalool synthase in genetic engineering of scent production
- 327 5,833,600 Method of diagnosing amygdala related transitory disorders and treatment thereof
- 328 <u>5,814,798</u> Method and apparatus for personal attribute selection and management using prediction
- 329 5,792,796 Methods for treating anxiety and panic
- 330 5,788,982 Method and composition for treating oral pain using capsaicin
- 331 <u>5,786,385</u> Polyacetylenes
- 332 5,783,571 Method of altering hypothalamic function by nasal administration of estrene steroids
- 333 5,782,692 Time-segmented multimedia game playing and authoring system
- 334 <u>5,759,044</u> **T** <u>Methods and apparatus for generating and processing synthetic and absolute real time environments</u>
- 335 <u>5,744,321</u> **T** Detection of fish spoilage by colorimetry
- 336 <u>5,733,572</u> **T** Gas and gaseous precursor filled microspheres as topical and subcutaneous delivery vehicles
- 337 <u>5,722,418</u> T <u>Method for mediating social and behavioral processes in medicine and business through an interactive telecommunications guidance system</u>
- 338 5,707,334 T Method of treating amygdala related transitory disorders
- 339 <u>5,675,225</u> **T** Interactive pet toy
- 340 5,648,636 Non-detonable and non-explosive explosive simulators
- 341 <u>5,633,484</u> Method and apparatus for personal attribute selection and management using a preference memory
- 342 5,633,392 Estrenes for inducing hypothalamic effects
- 343 <u>5,630,159</u> Method and apparatus for personal attribute selection having delay management method and apparatus for preference establishment when preferences in a donor device are unavailable
- 344 5,620,463 T Electrophysiological conditioning system and method
- 345 5,613,909 Time-segmented multimedia game playing and authoring system
- 346 5,601,909 T Permanent electrode carrier using tourmaline
- 347 5,565,148 T Device for selectively providing a multiplicity of aromas
- 348 <u>5,546,475</u> **T** <u>Produce recognition system</u>
- 349 <u>5,534,520</u> **T** Spiro compounds containing five-membered rings
- 350 <u>5,513,130</u> **T** <u>Methods and apparatus for generating and processing synthetic and absolute real time environments</u>

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Results of Search in US Patent Collection db for: (((("training" OR train) OR learn) AND ((sniff OR smell) OR scent)) AND (local OR localized)): 381 patents.

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Refine Search ("training" OR train OR learn) AND (sniff or smell OR

PAT.

Title

- NO.
- 351 5,503,161 T Universal medical instrument based on spectrum analysis
- 352 5,495,602 T Information processing apparatus operated by using feeling expression words
- 353 5,485,792 T Latent image development system
- 354 5,484,293 T Mobile learning laboratory for multi-discipline self-study
- 355 5,443,076 T Means for enhancing the productivity of video telecommunication systems
- 356 5,425,374 T Device and method for expiratory air examination
- 357 5,413,812 T Method for fabricating non-detonable explosive simulants
- 358 5,403,263 T Method of reducing the recovery time and stress associated with surgery
- 359 5,359,936 T Non-detonable explosive simulators
- 360 5,287,537 **T** Distributed processing system having plural computers each using identical retaining information to identify another computer for executing a received command
- 361 5,255,211 T Methods and apparatus for generating and processing synthetic and absolute real time environments
- 362 5,174,042 T Garbage disposer utilizing microwave heating
- 363 5,159,928 T Method and apparatus for measuring and controlling the level of hormones in an animal circulatory system
- 364 5,150,724 T Method of making non-nicotine cigarettes
- 365 5,149,399 **T** Liquid evaporator
- 366 5,137,744 T Process and system for the improvement of edible fiber and product
- 367 5,137,687 T Process for odor control
- 368 5,112,638 T Process for the improvement of edible fiber and product
- 369 5,071,622 T Process for odor control
- 370 5,035,743 T Desensitizing ink for the printing of self-copying sheets

Patent Database Search Results: ("training" OR train OR learn) AND (sniff or smell OR s... Page 2 of 2

- 371 5,016,162 **T**: Contention revolution in a digital computer system
- 372 4,920,483 T A computer memory for accessing any word-sized group of contiguous bits
- 373 4,570,640 T Sensory monitoring apparatus and method
- 374 <u>4,368,459</u> **T** Educational apparatus and method for control of deaf individuals in a mixed teaching environment
- 375 4,363,448 **T** Milling of cereals and the like
- 376 <u>4,269,758</u> **T** Method for hardening a composition particularly intended for making foundry cores and moulds
- 377 4,044,099 T Polluted air effluent incinerating method
- 378 3,960,504 **T** Polluted air effluent incinerating apparatus
- 379 3,791,790 T PORTABLE PURIFICATION DEVICE FOR FLUIDS
- 380 3,751,629 T SURFACE HEATING DEVICE
- 381 3,573,430 T SURFACE HEATING DEVICE

